

VPU series
VPU AC I 3+1 R 440/25 LCF**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

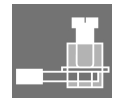
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Weidmüller VPU I (Type I), VPU II (Type II) and VPU III (Type III) surge protection products effectively reduce the interference coupling that can occur due to transient surge voltages, even significantly below the limits prescribed by insulation co-ordination according to EN 60664-3 / DIN VDE 0110-3. This means that the whole installation is exposed to fewer malfunctions. The arresters are co-ordinated using technical means. This means that decoupling between Types I, II and III is unnecessary. The arresters are tested according to product standard IEC 61643-11 / DIN EN 61643-11 and can be installed in systems according to IEC 61643-12 / VDE V0675-6-12 and IEC 62305-4 / VDE 0185-4. This lightning and surge protection device is suited for installation in power supply systems. Weidmüller offers different products depending on the particular mains network type and voltage level. A special Type I and Type II protective device is even available for photovoltaic applications.

General ordering data

Type	VPU AC I 3+1 R 440/25 LCF
Order No.	2619260000
GTIN (EAN)	4050118630688
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	144 mm	Width (inches)	5.669 inch
Height	106 mm	Height (inches)	4.173 inch
Depth	93 mm	Depth (inches)	3.661 inch
Net weight	25 g		

Temperatures

Humidity	5 - 95% rel. humidity	Operating temperature, max.	85 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...85 °C
Storage temperature	-40 °C...85 °C		

Connection data, remote alert

Connection type	Screw connection, pluggable	Stripping length	8 mm
Cross-section for connected wire, solid core, min.	0.14 mm ²	Cross-section for connected wire, solid core, max.	1.5 mm ²

General data

Altitude	≤ 2000 m	Colour	black
Design	Installation housing; 8 TE, Insta IP 20	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20 in installed state	Rail	TS 35
Segment	Power distribution	Suitable for	Count-in installation (leakage current free)
UL 94 flammability rating	V-0	Version	Surge protection, with remote contact

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Technical data

Rated data IEC / EN

Discharge current $I_{\max}$ (8/20 μ s) wire-PE	100 kA
Discharge current I_n (8/20 μ s) N-PE	100 kA
Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons
Frequency range, min.	50 Hz
Leakage current at U_n	5 μ A
Lightning test current, I_{imp} (10/350 μ s) (N-PE)	100 kA
Max. continuous voltage, U_c (AC)	440 V
No. of poles	8
Protection level U_p at I_N (L/N-PE)	≤ 2.5 kV
Rated load current I_L	100 A
Requirements category acc. to IEC 61643-11	Type I, Type II
Response time	≤ 25 ns, ≤ 100 ns
Signalling contact	
	250 V 1A 1CO
Suitable for	Count-in installation (leakage current free)
Voltage type	AC

Discharge current $I_{\max}$ (8/20 μ s) N-PE	100 kA
Discharge current I_n (8/20 μ s) wire-PE	25 kA
Frequency range, max.	60 Hz
Fuse	250 A gL (if back up fuse > 250 A)
Lightning test current I_{imp} (10/350 μ s) (L-PE)	25 kA
Low voltage network	TN-C-S, TN-S, TT
Max. continuous voltage, U_c (N-PE)	440 V
Protection level U_p (typ.)	≤ 2.5 kV
Protection level U_p at I_N (N-PE)	≤ 2.5 kV
Rated voltage (AC)	400 V
Requirements class, acc. to EN 61643-11	T1, T2
Short-circuit current rating I_{SCCR}	50 kA
Standards	IEC 61643-11, EN 61643-11, EN 60068-2-27:2009, EN 60068-2-64:2008, EN 60068-2-6:2008
Temporary surge voltage (over-voltage) - TOV	762 V

Connection data

Wire connection method	Screw connection	Type of connection	Screw connection
Stripping length, rated connection	13 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	3 Nm	Clamping range, rated connection	16 mm ²
Clamping range, min.	6 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	6 mm ²	Wire cross-section, solid, max.	16 mm ²
Wire connection cross-section, finely stranded, min.	6 mm ²	Wire connection cross section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	6 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	35 mm ²
Connection cross-section, stranded, min.	6 mm ²	Connection cross-section, stranded, max.	35 mm ²

Classifications

ETIM 3.0	EC000381	ETIM 5.0	EC000510
ETIM 6.0	EC000941	UNSPSC	30-21-19-22
eClass 5.1	27-14-02-01	eClass 6.2	27-13-08-02
eClass 7.1	27-14-02-01	eClass 8.1	27-14-02-01
eClass 9.0	27-13-08-05	eClass 9.1	27-13-08-05

Approvals

Approvals



ROHS

Conform

Creation date May 27, 2019 7:58:27 PM CEST

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Technical data

Downloads

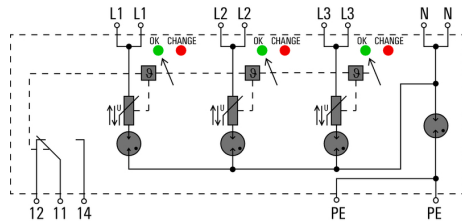
Approval/Certificate/Document of Conformity	Declaration of Conformity Declaration of Conformity Declaration of Conformity Declaration of Conformity
Engineering Data	STEP

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Drawings

Electric symbol



Schematic circuit diagram